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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,598	02/02/2001	Fumiyasu Hirai	010105	6246
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ARMSTRONG,WESTERMAN & HATTORI, LLP			EXAMINER	
1725 K STREE SUIȚE 1000	•	ANDRES, JANET L		
WAŞHINGTO	'AŞHINGTON, DC 20006		ART UNIT	:APER NUMBER
ļ.			1646	^
·,			DATE MAILED: 06/04/2002	₂ 6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/773,598	HIRAI ET AL.		
		Examin r	Art Unit		
		Janet L Andres	1646		
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1)⊠	Responsive to communication(s) filed on 22 /	March 2002			
2a)□	_	is action is non-final.			
3)□	,		osecution as to the merits is		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠	4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.				
	4a) Of the above claim(s) <u>1-3 and 5</u> is/are withdrawn from consideration.				
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>4</u> is/are rejected.				
7)	Claim(s) is/are objected to.		,		
8)	Claim(s) are subject to restriction and/o	r election requirement.			
Application	on Papers				
·	The specification is objected to by the Examine				
10) 🗌 1	The drawing(s) filed on is/are: a)☐ accept	oted or b) objected to by the Exar	miner.		
🗖 –	Applicant may not request that any objection to the				
11)[] 1	The proposed drawing correction filed on		ved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)		

Application/Control Number: 09/773,598 Page 2

Art Unit: 1646

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group II, claim 4 in Paper No. 5 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). The restriction requirement is therefore made FINAL. Claims 1-5 are pending in this application. Claims 1-3 and 5 are withdrawn from consideration as drawn to a non-elected invention.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 4774322 (Seyedin et al., 1988), 4931548 (Lucas et al., 1990), or U.S. patent 5322933 (Davies et al., 1994) in view of U.S. patent 6270994 (Miyazono et al., priority date 1997).

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

Art Unit: 1646

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

The '322 patent, '548 patent, and the '933 patent each teach purification of TGF-beta by reversed-phase chromatography using a C18 column. TGF-beta is absorbed onto the column and then eluted with an acetonitrile gradient. See column 6, lines 18-44 of the '322 patent, column 2, line 54, column 3, lines 65-68, and column 4, lines 1-3 of the '548 patent, and column 3, lines 44-61 of the '933 patent. A C18 column comprises octadecane bound to silicon and is thus an adsorbent comprising a compound having a log P value of at least 2.5 bound to a water-insoluble carrier, as specified by Applicant in claim 4. The '944 patent teaches many conditions involve TGF-beta, including liver, kidney, and lung fibrosis, as well as scarring and atherosclerosis (column 20, lines 53-65), and teaches that it would be beneficial to reduce TGF-beta activity in these conditions (column 20, line 44-48). It would thus be prima facie obvious to one of ordinary skill in the art to combine the teachings of the '322 patent, the '548 patent, or the '933 patent with those of the '994 patent to use C18 columns or similar hydrophobic chromatography to remove TGF-beta from body fluids. One of ordinary skill would be motivated to do so because the '944 patent teaches that there are many conditions that are adversely affected by TGF-beta, and the '322 patent, the '548 patent, and the '933 patent teach that a C18 column is an efficient means of adsorbing TGF-beta.

NO CLAIM IS ALLOWED.

Application/Control Number: 09/773,598

Art Unit: 1646

Page 4

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet Andres, Ph.D., whose telephone number is (703) 305-0557. The examiner can normally be reached on Monday through Friday from 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, Ph.D., can be reached at (703) 308-6564. The fax phone number for this group is (703) 872-9306 or (703) 872-9307 for after final communications.

Communications via internet mail regarding this application, other than those under U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [yvonne.eyler@uspto.gov].

All Internet email communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark Office on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Janet Andres, Ph.D. May 30, 2002

YVONNE EYLER, PH.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600